

d his

(FILE 'HOME' ENTERED AT 08:21:41 ON 03 FEB 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS,
DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 08:22:59 ON 03 FEB
2004

SEA (CAP43 OR DRG1 OR TDD5 OR NDR1) (15W)HYPOXIA

7 FILE BIOSIS
5 FILE BIOTECHNO
3 FILE CANCERLIT
12 FILE CAPLUS
1 FILE CONFSCI
2 FILE DISSABS
6 FILE EMBASE
6 FILE ESBIODBASE
1 FILE IFIPAT
2 FILE LIFESCI
6 FILE MEDLINE
2 FILE NTIS
3 FILE PASCAL
6 FILE SCISEARCH
8 FILE TOXCENTER
5 FILE USPATFULL
1 FILE USPAT2
1 FILE WPIDS
1 FILE WPINDEX

L1 QUE (CAP43 OR DRG1 OR TDD5 OR NDR1) (15W) HYPOXIA

FILE 'CAPLUS, TOXCENTER, BIOSIS, EMBASE, ESBIODBASE, MEDLINE, SCISEARCH,
BIOTECHNO, USPATFULL, CANCERLIT, PASCAL, DISSABS, LIFESCI, NTIS, CONFSCI,
IFIPAT, USPAT2, WPIDS' ENTERED AT 08:24:55 ON 03 FEB 2004

L2 77 S (CAP43 OR DRG1 OR TDD5 OR NDR1) (15W)HYPOXIA

L3 25 DUP REM L2 (52 DUPLICATES REMOVED)

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(FILE 'HOME' ENTERED AT 07:24:19 ON 03 FEB 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 07:24:26 ON 03 FEB 2004

SEA HYPOXIA AND (HYPERPROLIF? OR DYSPLASIA OR METAPLASIA OR HYP

3 FILE ADISCTI
1 FILE ADISINSIGHT
4 FILE ADISNEWS
3 FILE AGRICOLA
10 FILE AQUASCI
1 FILE BIOBUSINESS
230 FILE BIOSIS
5 FILE BIOTECHABS
5 FILE BIOTECHDS
26 FILE BIOTECHNO
14 FILE CABA
42 FILE CANCERLIT
143 FILE CAPLUS
7 FILE DISSABS
6 FILE DDFB
12 FILE DDFU
330 FILE DGENE
6 FILE DRUGB
33 FILE DRUGU
1 FILE EMBAL
273 FILE EMBASE
51 FILE ESBIODBASE
20 FILE FEDRIP
46 FILE IFIPAT
4 FILE JICST-EPLUS
14 FILE LIFESCI
216 FILE MEDLINE
7 FILE NIOSHTIC
1 FILE NTIS
4 FILE OCEAN
67 FILE PASCAL
5 FILE PROMT
209 FILE SCISEARCH
99 FILE TOXCENTER
1200 FILE USPATFULL
55 FILE USPAT2
2 FILE VETU
93 FILE WPIDS
93 FILE WPINDEX

L1 QUE HYPOXIA AND (HYPERPROLIF? OR DYSPLASIA OR METAPLASIA OR HYP

SEA L1 AND HYPOXIA(15W) (HYPERPROLIF? OR DYSPLASIA OR METAPLASIA

1 FILE ADISCTI
1 FILE ADISNEWS
1 FILE AGRICOLA
43 FILE BIOSIS
4 FILE BIOTECHNO
3 FILE CABA
3 FILE CANCERLIT
14 FILE CAPLUS
3 FILE DISSABS
4 FILE DDFB

1 FILE DDFU
21 FILE DGENE
4 FILE DRUGB
4 FILE DRUGU
33 FILE EMBASE
8 FILE ESBIODBASE
4 FILE FEDRIP
22 FILE IFIPAT
2 FILE JICST-EPLUS
1 FILE LIFESCI
29 FILE MEDLINE
1 FILE NIOSHTIC
1 FILE NTIS
8 FILE PASCAL
25 FILE SCISEARCH
10 FILE TOXCENTER
39 FILE USPATFULL
6 FILE USPAT2
27 FILE WPIDS
27 FILE WPINDEX

L2 QUE L1 AND HYPOXIA(15W) (HYPERPROLIF? OR DYSPLASIA OR METAPLASIA

FILE 'BIOSIS, USPATFULL, EMBASE, MEDLINE, WPIDS, SCISEARCH, IFIPAT,
DGENE, CAPLUS, TOXCENTER, ESBIODBASE, PASCAL, USPAT2, BIOTECHNO, DRUGB,
DRUGU, FEDRIP, CABA, CANCERLIT, DISSABS, JICST-EPLUS, ADISCTI, ADISNEWS,
AGRICOLA, LIFESCI, NIOSHTIC, NTIS' ENTERED AT 07:26:25 ON 03 FEB 2004

L3 318 S L1 AND HYPOXIA(15W) (HYPERPROLIF? OR DYSPLASIA OR METAPLASIA O
L4 186 DUP REM L3 (132 DUPLICATES REMOVED)

FILE 'HOME' ENTERED AT 07:57:33 ON 03 FEB 2004

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File.

ANSWER 9 OF 26 DISSABS COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved on STN

AN 2003:22583 DISSABS Order Number: AAI3062795

TI **Cap43: A new cancer marker protein related to tumor hypoxia**

AU Cangul, Hakan [Ph.D.]; Costa, Max [adviser]

CS New York University (0146)

SO Dissertation Abstracts International, (2002) Vol. 63, No. 8B, p. 3664.
Order No.: AAI3062795. 128 pages.
ISBN: 0-493-80901-5.

DT Dissertation

FS DAI

LA English

AB **Cap43** is the protein product of a new gene, which was cloned based on the high inducibility of its mRNA by nickel compounds. In the present study, in vitro expression patterns of **Cap43** protein upon exposure to nickel, cobalt, hypoxia, and several other agents were investigated in a variety of cell lines. Hypoxia induced **Cap43** protein in all cell lines tested. Under normoxic conditions, the starvation of cells in the long-term confluent cultures also induced **Cap43** protein. The expression of the protein is mostly dependent on HIF-1 transcription factor but some other HIF-1 independent pathways are also involved in the regulation of the protein. Immunohistochemical staining of human tissues with an antibody against **Cap43** showed that the protein was overexpressed in the vast majority of cancers whereas the existence of protein in normal tissues was very limited. The overexpression of **Cap43** protein was especially intense in hypoxic areas such as the margins of necrotic areas and the areas far away from blood vessels. The specificity of **Cap43** for cancer outweighs that of other proposed tumor markers, HIF-1 α ; and CYP1B1. It is concluded that the overexpression of **Cap43** in human tumors originates from hypoxia and nutrient deprivation of cancer cells because of the inability of local vasculature to provide enough oxygen and nutrient to rapidly dividing tumor cells. **Cap43** protein levels may increase in serums of cancer patients and be used in early cancer detection. Since **Cap43** could play a pivotal role in cancer cell survival, it may also be possible to direct therapy towards **Cap43** protein with drugs that specifically destroy this protein.

L4 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9

AN 2001:572704 CAPLUS

DN 136:164921

TI ~~High expression of the **Cap43** gene in infiltrating macrophages of human renal cell carcinomas~~

AU Nishie, Akihiro; Masuda, Katsuaki; Otsubo, Michihiro; Migita, Toshiro; Tsuneyoshi, Masazumi; Kohno, Kimitoshi; Shuin, Taro; Naito, Seiji; Ono, Mayumi; Kuwano, Michihiko

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